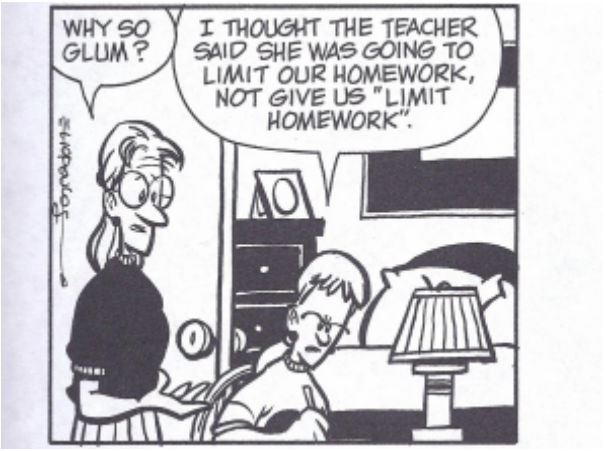
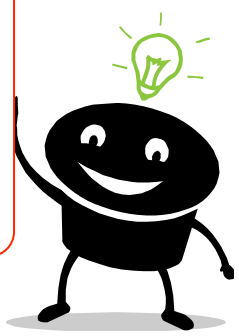
MCV 4U



UNIT 1 – TANGENTS & LIMITS

Lesson	Section	Topic	Page	Suggested Exercises	Done
1		**Introduction to Calculus**		Handout	
2	1.2	**Slope of a Tangent (First Principles)**	18	# 2b, 3, 4bef,5bc, 6, 8-11, 15-16	
3	1.2	**Slope of a Tangent Cont'd**	21	18adef-25	
4	1.3	**Rates of Change**	29	# 1-4, 7-16, 18, 20-22	
5	1.4	**Limit of a Function**	37	#2-15	
6	1.5	**Properties of Limits & Indeterminate Form, Including Absolute Functions**		# 1-4, 6-10, 12-13, 16 (# 11 time permitting)	
7		**Indeterminate Form Continued**		Handout on indeterminate form	
8	1.6	**Continuity**		# 1-17	
9		**Review:** ✓ **Mid-Chapter** ✓ **Key Concepts** ✓ **Full Chapter** ✓ **Chapter Test**	 33 55 57 60	 #1-5,7-12 # 1-11, 16-20 # 1-8	
10		**Test**			

Leibniz vs. Newton

Both discovered Calculus independently, although Newton is credited to discovering it first, Leibniz is in fact credited for its first publication in *Principia*. It was a major intellectual controversy between the two that lasted for 12 years. In fact, ten years after Leibniz's death, Newton erased the reference to Leibniz from the third edition of the *Principia* as a final insult. This is the academic equivalent of Newton throwing a chair at Leibniz on the Jerry Springer Show (topic: "You published your solution to an ancient mathematical riddle before me and I'm 'fighin' mad!")